

AMENDMENT

Serial Number: 10/775,275

Filing Date: February 10, 2004

Title: A SYSTEM AND METHOD FOR POWER CONVERTER SWITCH CONTROL
POWER CONVERTER**Page 2**
O2M04.01**Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the subject application.

Listing of Claims:

What is claimed is:

1-12. (Cancelled)

13. (Previously Presented): A method comprising:

providing a first control signal to control a state of a first high side switch coupled to a first path of a full bridge circuit;

providing a second control signal to control a state of a second high side switch coupled to a second path of said full bridge circuit, said full bridge circuit coupled across a primary winding of a transformer;

providing a third control signal to simultaneously control a state of a first low side switch coupled to said first path of said full bridge circuit and a state of a first rectifier switch of a rectifier circuit over an entire operating cycle, said first rectifier switch coupled to one end of a secondary winding of said transformer; and

providing a fourth control signal to simultaneously control a state of a second low side switch coupled to said second path of said full bridge circuit and a state of a second rectifier switch of said rectifier circuit over said entire operating cycle, said second rectifier switch coupled to an opposite end of said secondary winding of said transformer.

14. (Original): The method of claim 13, further comprising:

shorting said primary winding during a first time interval by closing said first low side switch of said first path of said full bridge circuit and by closing said second low side switch of said second path of said full bridge circuit during said first time interval.

AMENDMENT

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Title: 04.01 new title: A SYSTEM AND METHOD FOR POWER CONVERTER SWITCH CONTROL
POWER CONVERTER**Page 3**
O2M04.01

15. (Original): The method of claim 14, further comprising:

shorting said secondary winding during said first time interval by closing said first rectifier switch and by closing said second rectifier switch during said first time interval.

16. (Previously Presented): A power converter comprising:

a full bridge circuit having a first path and a second path, each path comprising a high side and low side bridge switch connected in series, each path having a node between said high side and low side bridge switches, and each path coupled to an input voltage terminal;

a transformer having a primary winding and a secondary winding, said primary winding being coupled between said nodes of said paths of said full bridge circuit; and

a rectifier circuit coupled to said secondary winding, said rectifier circuit comprising a first and second rectifier switch, said first rectifier switch coupled in series to said low side switch of said first path and to one end of said secondary winding, said second rectifier switch coupled in series to said low side switch of said second path and to an opposite end of said secondary winding; and

a controller configured to provide a first and a second control signal, wherein said low side switch of said first path and said first rectifier switch are simultaneously driven by said first control signal and said low side switch of said second path and said second rectifier switch are simultaneously driven by said second control signal over an entire cycle of said power converter.

17. (Currently Amended): The power converter of claim 16, wherein high side switches of said first and second paths are configured ~~adapted~~ to open and said low side switches of said first and second paths are configured ~~adapted~~ to close during a reset time interval to short said primary winding.

18. (Currently Amended): The power converter of claim 17, wherein said first and second rectifier switches are also configured ~~adapted~~ to close during said first reset time interval to short said secondary winding during said reset time interval.

AMENDMENT

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Title: 04.01 new title: A SYSTEM AND METHOD FOR POWER CONVERTER SWITCH CONTROL
POWER CONVERTER

Page 4
O2M04.01

19-23. (Cancelled):